

Gunter, Jason

From: James, Kevin <kjames@doerun.com>
Sent: Friday, June 19, 2015 3:31 PM
To: Gunter, Jason
Cc: Yingling, Mark; Neaville, Chris; Montgomery, Michael; 'martin.kator@dnr.mo.gov'; 'brandon.wiles@dnr.mo.gov'; Ty Morris (TMorris@barr.com); Seabourne, Rocky
Subject: Federal Progress Report - May
Attachments: removed.txt; Federal_ProgressReport_05-15.pdf; Remediation Air Report - April 2015.pdf
Categories: Red Category

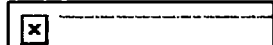
Jason -

Attached is the May Progress Report for the Federal Site.

Best regards,

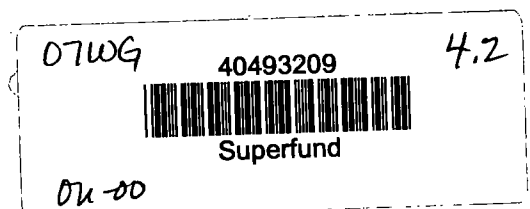
Kevin James

Kevin James



Construction Engineering
W: 573.626.2096
C: 573.247.6766

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**THE
DOE RUN
COMPANY**

Remediation Group

Kevin James
Construction Engineering Manager
kjames@doerun.com

June 19, 2015

Mr. Jason Gunter
Remedial Project Manager
U.S. Environmental Protection Agency
Region 7 - Superfund Branch
11201 Renner Blvd.
Lenexa, KS 66219

Re: The Doe Run Company – Federal Mine Tailings Site Monthly Progress Report

Dear Mr. Gunter:

As required by Article XVII, Paragraph 73 of the Administrative Order on Consent (Docket No. VII-97-F-0009) for the referenced project and on behalf of The Doe Run Company, the progress report for the period May 1, 2015 through May 31, 2015 is enclosed. If you have any questions or comments, please call me at 573-626-2096.

Sincerely,



Kevin James
Construction Engineering Manager

Enclosure

- c: Mark Yingling – TDRC (electronic only)
- Chris Neaville – TDRC (electronic only)
- Michael Montgomery – TDRC (electronic only)
- Martin Kator – MDNR DSP
- Brandon Wiles – MDNR HWP
- Ty Morris – Barr Engineering

35 Iron County Rd. #1, Viburnum, MO 65566
Telephone: (573) 626-2096

Federal Mine Tailings Site
Park Hills, Missouri
Monthly Progress Report
Period: May 1, 2015 – May 31, 2015

1. Actions Performed or Completed This Period:

- a. The draft Post-Removal Site Control Plan for the site was sent to MDNR-DSP for their review and comment.
- b. Work continued on the development of the Removal Action Report.
- c. Work continued on the design modifications to improve drainage in the northwest section of the Off-Road Vehicle (ORV) Riding Area.

2. Data and Results Received This Period:

- a. During this period, the ambient air monitoring samples for April were processed and the Ambient Air Monitoring Report for April 2015 was completed and is attached.

3. Planned Activities for Next Period:

- a. Address any comments received from MDNR-DSP to the Post-Removal Site Control Plan for the site.
- b. Continue developing the Removal Action Report.
- c. Continue the design modifications to help the northwest section of the ORV Riding Area drain properly.

4. Changes in Personnel:

- a. None.

5. Issues or Problems Encountered and the Resolution:

- a. None.

Monthly Ambient Air Monitoring Report

The Doe Run Company
Old Lead Belt Sites:
Federal, Rivermines, National, and Leadwood

April-2015



SUITE 300
1801 PARK 270 DRIVE
ST. LOUIS, MO 63146

Federal Site

Sample Results for April-2015

Sample Date	St. Joe (Ballfields)		Big River#4		Water Treatment Plant	
	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
4/1/15	27	0.014	20	0.007	21	0.007
4/2/15	14	0.007	15	0.007	17	0.014
4/6/15	16	0.007	16	0.007	16	0.007
4/7/15	40	0.007	41	0.014	45	0.000
4/8/15	37	0.007	39	0.007	41	0.007
4/9/15	24	0.007	21	0.000	25	0.035
4/10/15	21	0.007	22	0.040	25	0.020
4/13/15	33	0.007	52	0.007	28	0.007
4/14/15	26	0.007	24	0.007	26	0.007
4/15/15	30	0.014	33	0.007	27	0.007
4/16/15	25	0.021	34	0.014	27	0.027
4/17/15	33	0.014	39	0.007	33	0.014
4/20/15	26	0.021	26	0.007	43	0.198
4/21/15	26	0.007	31	0.027	36	0.054
4/22/15	31	0.014	28	0.053	27	0.034
4/23/15	33	0.007	35	0.480	36	0.007
4/24/15	24	0.007	25	0.007	24	0.007
4/27/15	31	0.014	36	0.013	31	0.007
4/28/15	37	0.014	37	0.007	32	0.034
4/29/15	46	0.014	53	0.007	48	0.049
4/30/15	43	0.021	50	0.007	53	0.027

Monthly Avg. TSP	30	32	31
Monthly Avg. Pb	0.011	0.035	0.027
Mar-15	0.012	0.004	0.014
Feb-15	0.009	0.006	0.011
Rolling 3-Month	0.011	0.015	0.017

Three month rolling average must be less than 0.15 ug/m3

NOTES:

Sample Date	Big River QA	
	TSP ug/m3	Lead ug/m3
4/2/15	17	0.007
4/7/15	41	0.020
4/9/15	24	0.000
4/14/15	21	0.007
4/16/15	34	0.014
4/21/15	30	0.027
4/23/15	40	0.502
4/28/15	39	0.013
4/30/15	51	0.007

Rivermines

Sample Results for **April-2015**

Sample Date	Big River #4		Rivermines South #1		Rivermines North #2		Rivermines East #3	
	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
4/1/15	20	0.007	22	0.014	32	0.180	21	0.007
4/2/15	15	0.007	invalid	invalid	13	0.021	17	0.014
4/6/15	16	0.007	invalid	invalid	13	0.007	16	0.007
4/7/15	41	0.014	43	0.007	33	0.007	45	0.000
4/8/15	39	0.007	36	0.007	35	0.007	41	0.007
4/9/15	21	0.000	8	0.000	21	0.007	25	0.035
4/10/15	22	0.040	invalid	invalid	18	0.007	25	0.020
4/13/15	52	0.007	invalid	invalid	28	0.007	28	0.007
4/14/15	24	0.007	invalid	invalid	30	0.007	26	0.007
4/15/15	33	0.007	46	0.106	29	0.007	27	0.007
4/16/15	34	0.014	38	0.075	21	0.007	27	0.027
4/17/15	39	0.007	invalid	invalid	26	0.007	33	0.014
4/20/15	26	0.007	36	0.027	25	0.035	43	0.198
4/21/15	31	0.027	41	0.034	27	0.007	36	0.054
4/22/15	28	0.053	37	0.189	30	0.014	27	0.034
4/23/15	35	0.480	45	0.052	37	0.007	36	0.007
4/24/15	25	0.007	invalid	invalid	22	0.041	24	0.007
4/27/15	36	0.013	33	0.020	36	0.007	31	0.007
4/28/15	37	0.007	44	0.047	57	0.007	32	0.034
4/29/15	53	0.007	70	0.206	43	0.007	48	0.049
4/30/15	50	0.007	invalid	invalid	62	0.014	53	0.027

Monthly Avg. TSP	32	38	30	31
Monthly Avg. Pb	0.035	0.060	0.019	0.027
Mar-15	0.004	0.019	0.013	0.014
Feb-15	0.006	0.013	0.016	0.011
Rolling 3-Month	0.015	0.031	0.016	0.017

Three month rolling average must be less than 0.15 ug/m3

NOTES:

Rivermines South: 4/2, <23hr run time - timer came loose.

4/6, 4/13, 4/14, 4/30, <23hr run time.

4/10, 4/17, 4/24, <25hr run time.

Sample Date	Big River QA	
	TSP ug/m3	Lead ug/m3
4/2/15	17	0.007
4/7/15	41	0.020
4/9/15	24	0.000
4/14/15	21	0.007
4/16/15	34	0.014
4/21/15	30	0.027
4/23/15	40	0.502
4/28/15	40	0.502
4/30/15	40	0.502

National Site

Sample Results for **April-2015**

	Big River #4		Ozark #1		Soccer Park #2		Water Treatment Plant	
Sample Date	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
4/1/15	20	0.007	24	0.014	43	0.041	21	0.007
4/2/15	15	0.007	15	0.007	18	0.021	17	0.014
4/6/15	16	0.007	27	0.014	22	0.014	16	0.007
4/7/15	41	0.014	invalid	invalid	invalid	invalid	45	0.000
4/8/15	39	0.007	45	0.007	invalid	invalid	41	0.007
4/9/15	21	0.000	22	0.000	60	0.118	25	0.035
4/10/15	22	0.040	24	0.007	35	0.068	25	0.020
4/13/15	52	0.007	23	0.007	26	0.007	28	0.007
4/14/15	24	0.007	22	0.007	38	0.055	26	0.007
4/15/15	33	0.007	28	0.007	38	0.055	27	0.007
4/16/15	34	0.014	28	0.014	38	0.062	27	0.027
4/17/15	39	0.007	37	0.007	63	0.097	33	0.014
4/20/15	26	0.007	26	0.007	29	0.028	43	0.198
4/21/15	31	0.027	32	0.007	33	0.007	36	0.054
4/22/15	28	0.053	39	0.014	34	0.021	27	0.034
4/23/15	35	0.480	43	0.007	42	0.027	36	0.007
4/24/15	25	0.007	28	0.007	31	0.034	24	0.007
4/27/15	36	0.013	34	0.007	35	0.021	31	0.007
4/28/15	37	0.007	40	0.007	37	0.020	32	0.034
4/29/15	53	0.007	47	0.007	45	0.021	48	0.049
4/30/15	50	0.007	54	0.007	51	0.021	53	0.027

Monthly Avg. TSP	32	32	38	31
Monthly Avg. Pb	0.035	0.008	0.039	0.027
Mar-15	0.004	0.007	0.025	0.014
Feb-15	0.006	0.006	0.019	0.011
Rolling 3-Month	0.015	0.007	0.028	0.017

Three month rolling average must be less than 0.15 ug/m3

NOTES:

Ozark #1: 4/7, <23hr run time

Soccer Park #2: 4/7, >25 hr run time, 4/8, <23hr run time.

	Big River QA	
Sample Date	TSP ug/m3	Lead ug/m3
4/2/15	17	0.007
4/7/15	41	0.020
4/9/15	24	0.000
4/14/15	21	0.007
4/16/15	34	0.014
4/21/15	30	0.027
4/23/15	40	0.502
4/28/15	40	0.502
4/30/15	40	0.502

Leadwood

Sample Results for **April-2015**

Sample Date	Big River #4		Leadwood South #1		Leadwood East #2		Leadwood North #3	
	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
4/1/15	20	0.007	9	0.007	35	0.034	20	0.000
4/2/15	15	0.007	11	0.007	12	0.007	12	0.000
4/6/15	16	0.007	17	0.000	23	0.021	13	0.000
4/7/15	41	0.014	36	0.000	33	0.007	38	0.000
4/8/15	39	0.007	40	0.007	38	0.007	35	0.000
4/9/15	21	0.000	invalid	invalid	21	0.000	21	0.000
4/10/15	22	0.040	invalid	invalid	20	0.007	19	0.007
4/13/15	52	0.007	22	0.006	9	0.000	29	0.007
4/14/15	24	0.007	27	0.021	38	0.007	24	0.007
4/15/15	33	0.007	30	0.021	49	0.028	32	0.007
4/16/15	34	0.014	24	0.014	invalid	invalid	22	0.014
4/17/15	39	0.007	33	0.007	50	0.021	35	0.007
4/20/15	26	0.007	24	0.014	23	0.014	29	0.007
4/21/15	31	0.027	29	0.007	23	0.007	31	0.007
4/22/15	28	0.053	23	0.007	29	0.007	31	0.007
4/23/15	35	0.480	38	0.014	40	0.020	38	0.020
4/24/15	25	0.007	27	0.007	32	0.013	27	0.000
4/27/15	36	0.013	37	0.026	36	0.027	32	0.020
4/28/15	37	0.007	invalid	invalid	45	0.013	38	0.007
4/29/15	53	0.007	invalid	invalid	43	0.007	43	0.007
4/30/15	50	0.007	58	0.020	56	0.007	53	0.007

Monthly Avg. TSP	32	29	33	30
Monthly Avg. Pb	0.035	0.011	0.013	0.006
Mar-15	0.004	0.020	0.013	0.005
Feb-15	0.006	0.014	0.006	0.003
Rolling 3-Month	0.015	0.015	0.010	0.005

Three month rolling average must be less than 0.15 ug/m3

NOTES:

Leadwood South #1: 4/9, <23hr, bad GFI, 4/10, >25hr. Did not shut off
4/28, >25 hr run time, 4/29, <23hr, motor failed.
Leadwood East #2: 4/16, >25hr run time.

Sample Date	Big River QA	
	TSP ug/m3	Lead ug/m3
4/2/15	17	0.007
4/7/15	41	0.020
4/9/15	24	0.000
4/14/15	21	0.007
4/16/15	34	0.014
4/21/15	30	0.027
4/23/15	40	0.502
4/28/15	40	0.502
4/30/15	40	0.502

Federal Site

Sample Results for **April-2015**

Sample Date	St. Joe (Ballfields) PM10 (ug/m3)	Big River#4 PM10 (ug/m3)	Water Treatment PM10 (ug/m3)
4/3/15	9	11	8
4/6/15	15	15	12
4/9/15	16	15	17
4/12/15	19	20	17
4/15/15	16	15	15
4/18/15	19	23	22
4/21/15	18	10	3
4/24/15	14	18	invalid
4/27/15	0	16	invalid
4/30/15	25	23	invalid

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	15	17	13
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NOTES:

Water Treatment: 4/24, <23hr run time.

4/27, 4/30, <23hr, breaker tripped,

Sample Date	Big River QA PM10 (ug/m3)
4/6/15	15
4/15/15	23
4/18/15	19
4/24/15	16
4/30/15	16

Rivermines

Sample Results for **April-2015**

Sample Date	Big River #4	Rivermines South #1	Rivermines North #2	Rivermines East #3
	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)
4/3/15	11	12	7	8
4/6/15	15	17	25	12
4/9/15	15	invalid	17	17
4/12/15	20	20	17	17
4/15/15	15	14	15	15
4/18/15	23	23	invalid	22
4/21/15	10	17	invalid	3
4/24/15	18	17	16	invalid
4/27/15	16	16	16	invalid
4/30/15	23	42	27	invalid

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	17	20	17	13
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NOTES:

Rivermines South #1: 4/9, <23hr run time

Rivermines North #2: 4/18, >25hr, 4/21, <23hr runtime.

Rivermines East #3: 4/24, <23hr, 4/27, 4/30, <23hr, breaker tripped.

Sample Date	Big River QA
	PM10 (ug/m3)
4/6/15	15
4/15/15	23
4/18/15	19
4/24/15	16
4/30/15	16

National Site

Sample Results for **April-2015**

Sample Date	Big River #4 PM10 (ug/m3)	Ozark #1 PM10 (ug/m3)	Soccer Park #2 PM10 (ug/m3)	Water Treatment PM10 (ug/m3)
4/3/15	11	8	11	8
4/6/15	15	14	15	12
4/9/15	15	17	22	17
4/12/15	20	18	28	17
4/15/15	15	15	17	15
4/18/15	23	17	24	22
4/21/15	10	10	11	3
4/24/15	18	16	14	invalid
4/27/15	16	18	12	invalid
4/30/15	23	23	27	invalid

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	17	16	18	13
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NOTES:

Water Treatment: 4/24, <23hr run time.

4/27, 4/30, <23hr, breaker tripped,

Sample Date	Big River QA PM10 (ug/m3)
4/6/15	15
4/15/15	23
4/18/15	19
4/24/15	16
4/30/15	16

Leadwood

Sample Results for **April-2015**

	Big River #4	Leadwood South #1	Leadwood East #2	Leadwood North #3
Sample Date	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)
4/3/15	11	39	6	11
4/6/15	15	13	13	13
4/9/15	15	invalid	17	18
4/12/15	20	14	18	13
4/15/15	15	15	22	13
4/18/15	23	19	24	18
4/21/15	10	invalid	invalid	8
4/24/15	18	invalid	invalid	15
4/27/15	16	13	19	16
4/30/15	23	22	69	20

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	17	19	24	14
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NOTES:

Leadwood South #1: 4/9, <23hr, electrical issues, 4/21, >25hr, 4/24, <23hr.
Leadwood East #2: 4/21, >25hr, 4/24, <23hr run time.

	Big River QA
Sample Date	PM10 (ug/m3)
4/6/15	15
4/15/15	23
4/18/15	19
4/24/15	16
4/30/15	16

Meterological Data - Old Lead Belt

April-2015

24hr average

Date	Wind Speed (MPH)	Wind Direction	Sigma-Theta	Temperature (C)	Air Pressure (mmHg)	Rain (Inches)	Power Supply (Volts)
01-Apr-15	6.4	177	24.76	15.6	744	0	13.39
02-Apr-15	7.2	203	23.70	19.5	740	0.05	13.32
03-Apr-15	7.1	338	24.44	10.9	745	0.63	13.44
04-Apr-15	3.1	202	38.22	7.9	753	0	13.50
05-Apr-15	5.9	200	21.41	10.7	747	0	13.49
06-Apr-15	5.4	185	24.13	14.6	744	0	13.40
07-Apr-15	6.3	186	23.09	19.1	743	1.58	13.35
08-Apr-15	6.3	194	26.39	21.7	741	1.61	13.30
09-Apr-15	9.7	214	18.22	21.7	739	0.3	13.28
10-Apr-15	5.5	286	24.74	13.3	747	0	13.35
11-Apr-15	2.6	113	29.00	13.0	749	0	13.39
12-Apr-15	4.7	158	27.21	18.6	746	0	13.34
13-Apr-15	3.9	37	21.02	16.5	746	0.3	13.36
14-Apr-15	4.6	40	24.51	15.4	748	0.01	13.38
15-Apr-15	3.8	75	26.40	16.2	745	0	13.34
16-Apr-15	1.9	137	38.75	17.3	745	0	13.33
17-Apr-15	2.7	131	27.00	18.9	745	0	13.29
18-Apr-15	2.9	130	27.48	19.1	742	0	13.29
19-Apr-15	2.7	280	22.22	16.5	734	0.35	13.34
20-Apr-15	5.7	277	25.52	11.8	738	0	13.37
21-Apr-15	4.1	251	21.91	11.6	741	0.04	13.44
22-Apr-15	4.7	294	24.42	11.1	744	0	13.39
23-Apr-15	2.5	109	37.45	10.8	746	0	13.42
24-Apr-15	5.3	165	23.75	11.8	743	0	13.45
25-Apr-15	5.2	221	25.19	16.3	734	0.15	13.36
26-Apr-15	5.2	20	24.40	11.1	742	0	13.42
27-Apr-15	3.6	41	22.19	10.7	746	0	13.44
28-Apr-15	3.7	63	22.91	11.2	746	0	13.41
29-Apr-15	3.509	270.2	25.91	13.9	742	0	13.36
30-Apr-15	5.072	322.4	21.49	14.4	743	0	13.34